

Title (en)
IMPROVED MIXED METAL OXIDE AMMOXIDATION CATALYSTS

Title (de)
VERBESSERTE MISCHMETALLOXID-AMMOXIDATIONSKATALYSATOREN

Title (fr)
CATALYSEURS D'AMMOXYDATION AMÉLIORÉS, À BASE DE MÉLANGES D'OXYDES MÉTALLIQUES

Publication
EP 2550100 A1 20130130 (EN)

Application
EP 11713389 A 20110321

Priority
• US 66170510 A 20100323
• US 2011000510 W 20110321

Abstract (en)
[origin: US2011237753A1] A catalytic composition useful for the conversion of an olefin selected from the group consisting of propylene, isobutylene or mixtures thereof, to acrylonitrile, methacrylonitrile, and mixtures thereof. The catalytic composition comprising a complex of metal oxides comprising bismuth, molybdenum, iron, cerium and other promoter elements, wherein the X-ray diffraction pattern of the catalytic composition has X-ray diffraction peaks at 2θ angle 28 ± 0.3 degrees and 2θ angle 26.5 ± 0.3 degrees, and wherein the ratio of the intensity of the most intense x-ray diffraction peak within 2θ angle 28 ± 0.3 degrees to the intensity of most intense x-ray diffraction peak within 2θ angle 26.5 ± 0.3 degrees is defined as X/Y, and wherein X/Y is greater than or equal to 0.7.

IPC 8 full level
B01J 23/00 (2006.01); **B01J 23/887** (2006.01); **C07C 253/26** (2006.01)

CPC (source: EP KR US)
B01J 23/002 (2013.01 - EP KR US); **B01J 23/881** (2013.01 - KR); **B01J 23/8871** (2013.01 - EP KR US); **B01J 23/8876** (2013.01 - EP KR US); **B01J 23/8878** (2013.01 - EP KR US); **B01J 35/30** (2024.01 - KR US); **B01J 35/38** (2024.01 - EP); **B01J 37/031** (2013.01 - EP KR US); **C07C 253/26** (2013.01 - EP KR US); **C07C 255/08** (2013.01 - KR); **B01J 2235/15** (2024.01 - EP); **B01J 2523/00** (2013.01 - EP KR US); **B01J 2523/12** (2013.01 - KR); **Y02P 20/52** (2015.11 - EP US)

C-Set (source: EP US)
1. **B01J 2523/00 + B01J 2523/12 + B01J 2523/13 + B01J 2523/15 + B01J 2523/22 + B01J 2523/3712 + B01J 2523/54 + B01J 2523/68 + B01J 2523/842 + B01J 2523/847**
2. **B01J 2523/00 + B01J 2523/14 + B01J 2523/22 + B01J 2523/3712 + B01J 2523/54 + B01J 2523/67 + B01J 2523/68 + B01J 2523/842 + B01J 2523/847**
3. **C07C 253/26 + C07C 255/08**

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
US 2011237753 A1 20110929; US 8153546 B2 20120410; BR 112012023960 A2 20171003; BR 112012023960 B1 20190205; CN 102892498 A 20130123; CN 102892498 B 20150325; EP 2550100 A1 20130130; EP 2550100 B1 20170503; JP 2013522038 A 20130613; JP 5940053 B2 20160629; KR 101772247 B1 20170829; KR 20130007625 A 20130118; MX 2012010927 A 20121217; MY 169991 A 20190619; RU 2012143840 A 20140427; RU 2561084 C2 20150820; TW 201138965 A 20111116; TW I508777 B 20151121; US 2012130112 A1 20120524; US 8350075 B2 20130108; WO 2011119208 A1 20110929

DOCDB simple family (application)
US 66170510 A 20100323; BR 112012023960 A 20110321; CN 201180024247 A 20110321; EP 11713389 A 20110321; JP 2013501246 A 20110321; KR 20127027486 A 20110321; MX 2012010927 A 20110321; MY PI2012004181 A 20110321; RU 2012143840 A 20110321; TW 100109692 A 20110322; US 2011000510 W 20110321; US 201213351292 A 20120117